

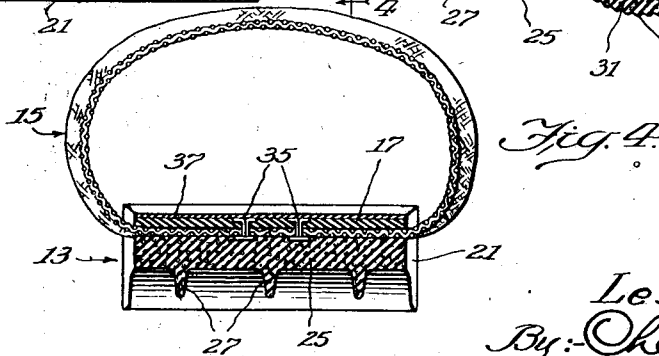
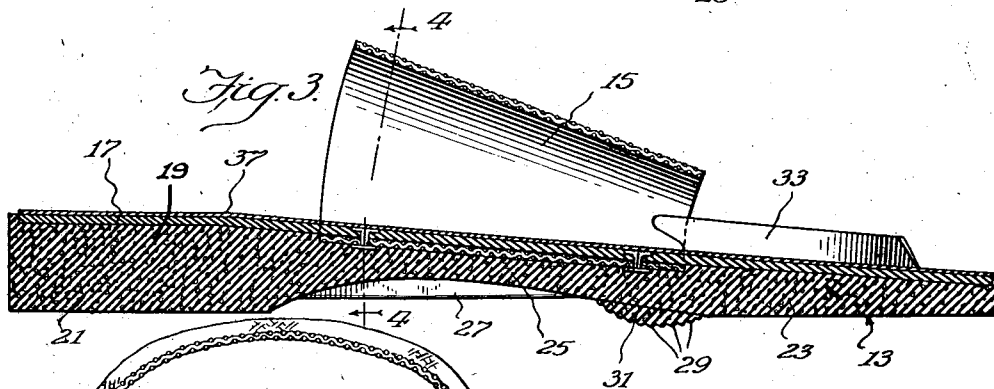
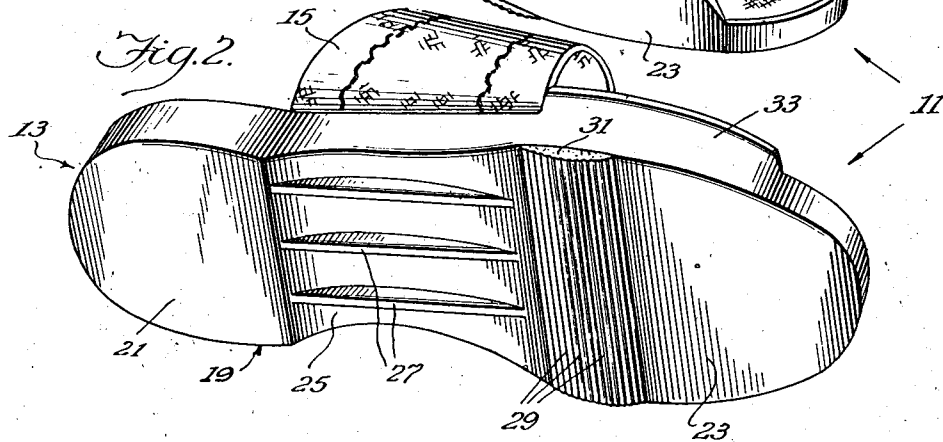
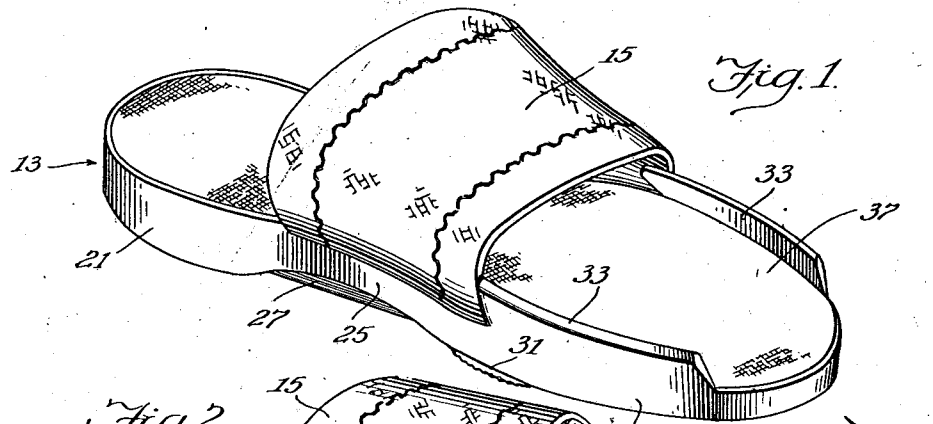
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L. GOLDSTONE

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SLIPPER

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UNITED STATES PATENT OFFICE

LEROY GOLDSTONE, OF CHICAGO, ILLINOIS, ASSIGNOR TO JUDSEN RUBBER WORKS, OF CHICAGO, ILLINOIS, A PARTNERSHIP COMPOSED OF CARL A. JUDSEN AND LEROY GOLDSTONE

SLIPPER

Application filed March 22, 1929. Serial No. 349,105.

My invention relates in general to footwear and has more particular reference to a slipper having special utility when used as a bathing sandal; although the slipper can also be used for other purposes.

One object of my present invention is to provide a neat comfortable bathing sandal of novel construction.

Another important object of my invention is to provide a rugged inexpensive general utility slipper which will not deteriorate, if subjected to moisture, and which is for this reason especially adapted for use as a bathing shoe.

Still another important object of my invention is to provide a bathing sandal having a moulded cellular rubber sole and an arch band, firmly secured thereto by being moulded into the sole.

Among the other objects and advantages of my invention is the novel method of making a slipper of moulded cellular rubber; the novel method of attaching the arch band to the sole of the slipper; and the provision of novel means for preventing the shoe from slipping on wet surfaces and of improved means for holding the slipper firmly to the foot of a wearer to prevent the shoe from wobbling, and thus improve its wearing characteristics.

These and numerous other objects of the invention will be apparent as it is more fully understood from the following description which, taken in connection with the accompanying drawings, discloses a preferred embodiment of my invention.

Referring to the drawings:

Figure 1 is a perspective view, taken from above, illustrating a slipper embodying my invention;

Figure 2 is a perspective view, taken from below, to further illustrate the slipper shown in Figure 1;

Figure 3 is a cross section taken longitudinally through the slipper illustrated in Figures 1 and 2; and

Figure 4 is a vertical cross section taken substantially along the line 4—4 in Figure 3.

To illustrate my invention I have shown in the drawings a slipper having certain fea-

tures of advantage which adapt it particularly for use as a bathing shoe.

The shoe 11 comprises a sole indicated generally at 13, which is a foot retaining means comprising in the illustrated embodiment, an arch retaining strap 15. The strap 15 may be conveniently formed of any suitable woven material, such as canvas. The sole 13 comprises a sole strip 17, which may be formed from a strip of canvas and a moulded sole 19. I may form the sole of suitable mouldable or composite material, but prefer to utilize sponge rubber for this purpose, since this material may be readily moulded, and provides a highly resilient and extremely comfortable sole for the slipper.

The sole strip 17 may be impregnated with rubbery material to facilitate the adhesion of the rubber sole which is mounted directly to the sole strip. The sole 19 comprises a heel pad 21, a toe pad 23 and an interconnecting relatively narrow portion 25.

In order to improve the walking characters of the slipper, I provide means for preventing the sole from slipping and for securing the slipper more firmly to the foot of a wearer. In order to furnish support for the arch of a wearer's foot, I provide a plurality of longitudinally extending fins or flanges 27, which are formed integrally with the sole in the lower surface of the narrow connecting portion 25 of the sole. These fins extend between the forward edge of the heel portion 21 and the rear of the toe portion 23, and in walking when the sole 19 is flexed, these flanges or fins make contact with the pavement and support the arch of the wearer. These fins also tend to off-set the tendency of the slipper to slip laterally.

To prevent longitudinal slipping I form an integral protuberant band 31 of rubber across the sole at the rear of the toe portion 23, and providing the surface of this protuberance with a plurality of lateral grooves 29. It will be apparent that the grooves and ridges in the surface of the lateral protuberance 31 will be pressed against the pavement when the slipper is worn and will thus prevent the shoe from slipping back and forth upon the pavement.

I have also provided lateral upstanding flanges 33 at the sides of the toe portion and extending from the forward edge of the arch strap 15 to points spaced rearwardly of the front end of the toe portion 23. These flanges are formed integrally of the sole 19 during the sole moulding operation and engage the sides of the foot of a wearer, and thus prevent the slipper from wobbling and thus improve the walking characteristics of the slipper because the shoe itself is easier to steer.

The arch strap is tapered forwardly to fit the foot and is formed of a band of suitable woven material which encircles the sole strip 17 extending between the sole strip and moulded sole 19 at the instep of the shoe, so that the arch strap is moulded into the sole. In addition, the arch strap is secured to the sole strip by means of rivets 35. The shoe is finished by securing an inner sole 37, which may be formed conveniently from a strip of fine canvas, or similar woven material, across the upper surface of the sole 13.

Among the advantages inherent in the shoe which I have hereinbefore described are the advantages arising from the side supports, which extend forwardly of the arch retaining strap and engage the sides of the foot to thereby prevent the foot from wobbling in the shoe; and to permit easy walking, the non-slipping properties of the shoe because of the grooves 29 in the resilient protuberance at the rear of the toe portion 23, the arch supporting fins 27 and the inherent comfort of the shoe because of the cushioning features of the cellular rubber. These advantages are of course in addition to those arising through the inexpensive nature of the moulded shoe, the process of making same, the slightly appearance of the product and its utility.

It is thought that the invention and numerous of its attendant advantages will be understood from the foregoing description and it is obvious that numerous changes may be made in the form, construction and arrangement of the various parts without departing from the spirit and scope of the invention or sacrificing any of its material advantages, the form herein described being a preferred embodiment of the invention.

Having thus described my invention what I claim as new and desire to secure by Letters Patent is:

1. A sandal comprising a flexible sole having longitudinal arch supporting flanges and an arch retaining strap forming with the sole a tapered opening into which the foot of the wearer may be inserted whereby when the foot is pressed into the tapered socket the flexible sole will be drawn up against the arch of the wearer to support the same.

2. A slipper comprising a sole member comprising a sole strip and a layer of re-

silient material and an arch retaining strap, having its ends riveted to the sole strip and embedded in the resilient material.

3. A slipper comprising a resilient sole and means for securing the sole to a foot, said means comprising an arch strap and said sole including a heel pad, a toe pad and a relatively thin connecting portion, longitudinally extending arch support fins extending downwardly of said connecting portion, lateral grooves formed in the rear portions of the toe pad whereby to prevent slipping, said grooves extending from the surface of the shoe, and said arch strap being moulded into the sole and lateral integral upstanding flanges formed along the sides of the toe pad to assist in steering the slipper and thus facilitating walking.

4. A slipper comprising a sole and means for securing the sole to a foot, said means comprising an arch strap, said sole including a heel pad, a toe pad and a relatively thin connecting portion, longitudinally extending arch support fins formed in said connecting portion and lateral grooves formed in the rear portions of the toe pad to prevent longitudinal slipping.

5. A slipper comprising a sole member and means for securing the sole member to a foot, said means comprising an arch strap, the sole member comprising a flexible sole strip and a resilient layer moulded to the underside of the strip, said arch strap being secured to the sole strip.

6. A slipper comprising a sole member and means for securing the sole member to a foot, said means comprising an arch strap, the sole member comprising a fabric sole strip, and a sole formed of mouldable material moulded to the underside of the fabric sole strip.

7. A slipper comprising a sole member and means for securing the sole member to a foot, said means comprising an arch strap, and said sole member comprising a rubber impregnated sole strip, and a tread surface of sponge rubber moulded to the underside of the canvas sole strip, said sole including a heel pad, a toe pad and a relatively thin connecting portion, longitudinally extending arch support fins extending downwardly of said connecting portion.

8. A slipper comprising a sole member and means for securing the sole member to a foot, said means comprising an arch strap, and said sole member comprising a flexible sole strip and a tread surface of material moulded to the underside of the sole strip, said tread surface including a heel pad, a toe pad and a relatively thin instep portion, longitudinally extending arch support fins extending downwardly of said instep portion, lateral grooves formed in the rear portions of the toe pad whereby to prevent longitudinal slipping.

9. A slipper comprising a sole member and means for securing the sole member to a foot, said means comprising an arch strap and said sole member comprising a flexible sole strip, and a tread surface of material moulded to the underside of the sole strip, said tread surface including a heel pad, a toe pad and a relatively thin instep portion, longitudinally extending arch support fins extending downwardly of said connecting portion, a resilient protuberant portion extending from the surface of the shoe, lateral grooves formed in the protuberant portion to prevent slipping, and said arch strap comprising a strip of material having its opposed ends riveted to the lower side of said sole strip.

10. A sandal having a sole flexible at its mid-length portion and a tapering strap approximately at said mid-length portion, said strap converging toward the forward end of the sandal and being open at the front and the sandal being free of obstructions at the forward end of the sole whereby the foot of the wearer may be pressed forward until the strap tightens over the instep of the wearer and draws the mid-portion of the sandal into close contact with the arch of the foot.

11. A bathing sandal comprising a thick molded sole member made of flexible cellular rubber, and a transverse fabric foot engaging member having ends molded in said rubber sole and extending up over the instep of a wearer.

12. A bathing sandal comprising a thick molded sole member made of flexible cellular rubber, and a transverse one-piece tapered fabric foot engaging member having its free ends molded in said rubber sole and extending up over the instep of the wearer.

13. A bathing sandal comprising a thick molded sole member made of flexible cellular rubber, a transverse fabric foot engaging member having ends molded in said rubber sole and extending up over the instep of a wearer, and a plurality of longitudinally extending flanges formed integrally with said sole on the lower portion thereof and acting as a support for the arch of a wearer's foot.

In witness whereof, I have hereunto subscribed my name.

LEROY GOLDSTONE.

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